

What is claimed is:

1 1. A method for maintaining the integrity of data stored throughout a distributed computer
2 system, the method comprising:
3 Sub transmitting an object from a server application to a client application;
4 A transmitting an object state from the server application to the client application;
5 synchronizing the object and object state between the server application and the client
6 application; and
7 updating the object by invoking a server application method after the step of
8 synchronizing.

1 2. The method of claim 1 further comprising the step of:
2 resynchronizing the object and object state between the server application and the client
3 application after the updating step.

1 3. A method for maintaining the integrity of data stored throughout a distributed computer
2 system, the method comprising:
3 detecting by a server application a connection outage between a server application and a
4 client application;
5 storing by the server application all transactions with the client application during the
6 connection outage;
7 detecting by the client application the connection outage between the server application
8 and the client application;
9 storing by the client application all transactions with the server application during the
10 connection outage; and
11 propagating all transactions between the server application and the client application after
12 the connection between the server application and the client application is restored.

1 4. A method for maintaining the integrity of data stored throughout a distributed computer
2 system, the method comprising:
3 identifying an object to be persisted;
4 determining a database provider for storing the object; and
5 storing the object with the database provider.

1 5. The method of claim 4, wherein the step of determining includes the step of selecting the
2 database provider based on an association with a schema defined in a database maintained by the
3 database provider.

1 6. The method of claim 4, wherein the step of determining includes the step of selecting the
2 database provider based on a database associated with the class to which the object belongs.

1 7. The method of claim 4, wherein the step of determining includes the step of selecting the
2 database provider based on a dynamic association of a database to the class to which the object
3 belongs.

1 8. A method for maintaining the integrity of data stored throughout a distributed computer
2 system, the method comprising:
3 identifying at a client application an object to be fetched from a server application;
4 determining whether an active version of the object has been previously fetched from the
5 server application;
6 requesting the object from the server application; and
7 receiving the object from the server application based on the step of requesting.

1 9. The method of claim 8, further comprising the steps of:
2 discarding the object received from the server by the step of receiving an active version of
3 the object has been previously fetched from the server application.

1 10. The method of claim 8 wherein the steps of requesting and receiving are performed only
2 if an active version of the object has not been previously fetched from the server application.

1 11. A method for maintaining the integrity of data stored throughout a distributed computer
2 system, the method comprising:
3 storing a location identifier associated with a method of an object, the location identifier
4 representing a location for processing the method;
5 invoking the method; and
6 processing the method at the location represented by the location identifier.